

Ammonia CHEMets® Kit

K-1410: Multiple Ranges

Safety Information

Read MSDS before performing this test procedure. Wear safety glasses.

0 - 2 ppm Test Procedure

1. Add **5 drops** of A-1402 Stabilizer Solution to the empty sample cup (fig 2).
2. Fill the sample cup to the 25 mL mark with the sample to be tested (fig 1).
3. Add **2 drops** of A-1401 Catalyzer Solution (fig 2). Stir to mix the contents of the cup.
4. Add **2 drops** of A-1400 Activator Solution (fig 2). Stir to mix the contents of the cup.
5. Immediately snap the tip by pressing the ampoule against the side of the cup. The ampoule will fill leaving a small bubble to facilitate mixing (fig 3).
6. Mix the contents of the ampoule by inverting it several times, allowing the bubble to travel from end to end. Dry the ampoule and wait **15 minutes** for color development.
7. Hold the comparator in a nearly horizontal position while standing directly beneath a source of light. Place the ampoule between the color standards moving it from left to right along the comparator until the best color match is found (fig 4). If the color of the ampoule is between two color standards, a concentration estimate can be made.

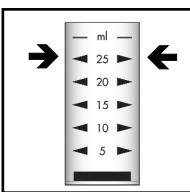


Figure 1

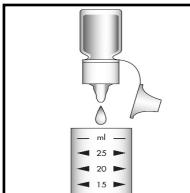


Figure 2

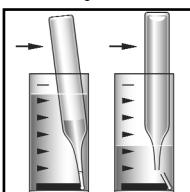


Figure 3

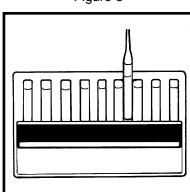


Figure 4

Sample Dilution Procedure - use distilled water only

Dilute the sample if the contents of the reacted ampoule are cloudy or if the ammonia concentration is suspected to exceed 2 ppm. Sample dilution is required because high levels of ammonia can produce false low test results with this reagent.

- A. Using the table below, select the most appropriate Test Range for the sample being tested.
- B. Collect the necessary equipment to accomplish the sample dilution. A Dilution Kit (Cat. No. A-0188) that contains the needed equipment is sold separately.
- C. Add the specified number of drops of A-1402 Stabilizer Solution to the selected sample cup.
- D. Dispense the specified volume of sample into the sample cup and dilute to the specified total volume with distilled water.
- E. Add the specified number of drops of A-1401 Catalyzer Solution to the sample cup. Stir briefly.
- F. Add the specified number of drops of A-1400 Activator Solution to the sample cup. Stir briefly.
- G. Proceed with Steps 5-7 of the 0 - 2 ppm Test Procedure.
- H. Multiply the test result obtained in Step 7 by the specified multiplication factor.

Test Range, ppm NH ₃ -N	Drops of A-1402	Volume of Sample	Total Volume (mL)	Drops of A-1401 & A-1400	Multiplication Factor
0 - 20	5	2.5 mL	25	2	10
0 - 250	5	200 uL	25	2	125
0 - 500	5	100 uL	25	2	250
0 - 1000	5	50 uL	25	2	500
0 - 2000	5	25 uL	25	2	1000
0 - 10,000	10	10 uL	50	4	5000

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